Vaccines and the Law 101: Overview of Federal Issues in **Vaccines**

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FDA Role in Vaccines

- Public Health Service Act Section 351
- Not Federal Food, Drug and Cosmetic Act
- Center for Biologics Evaluation and Research (CBER) evaluates
- Process of developing vaccines takes years, and is expensive
 Animal studies for safety, Phase 1 human trials for safety (months); Phase 2
 trials for safety and preliminary effectiveness (several hundred people;
 months to 2 years); Phase 3 trials (several hundred to thousands of people;
 months to years). Licenses needed for both product and establishment.
- FDA may refer new vaccine data to FDA advisory committee, Vaccine and Related Biological Products Advisory Committee (VRBPAC) for opinion



Vaccine Adverse Event Monitoring

- FDA and CDC maintain the VAERS (Vaccine Adverse Event Reporting System), as required by National Childhood Vaccine Injury Act of 1986
 - Health care providers required to report events from a governmentestablished reportable events table, as well as contraindications for further dosing; 1-800-822-7967
 - Anyone can report adverse event of any kind occurring after administration of vaccine
- Vaccine Safety Datalink
 - CDC program with 7 HMOs (6 million patients) to report vaccine events; established in 1990



Vaccine Committees

- Advisory Committee on Immunization Practices (ACIP)

 Establishes recommendations re: FDA-approved vaccine, including: age of administration; dosing regimer, who should receive; contraindications

 Recommendations usually adopted by CDC

 CDC recommendations on childhood vaccines usually adopted by states

 States often make these recommendations mandatory for entrance to school

 48 states allow religious exemptions; 15 allow philosophical exemptions (NB: cases of pertussis, diptheria, measles and meningitis from haemophilus influenzae B have declined 96-100% after development and adoption of the corresponding vaccines)
- National Vaccine Advisory Committee (NVAC)

 Advises National Vaccine Program Office on vaccine supply issues, research priorities
- Advisory Commission on Childhood Vaccines

 Advises HHS Secretary on Vaccine Injury Compensation Program
- VRBPAC



Problems for Vaccine Development

- R&D costs; high fixed costs in general; shelf life of biologicals
- Expectation by Public of Vaccine Cost
- Size of Vaccine Market
 - Public Concerns about Vaccines
 - Free Rider Problem: Parents Choose Not to Vaccinate Children
 - Orphan Drug Program at FDA
 - Reimbursement of Physicians
 - Medicare now gives doctor an average of \$18 for administration of flu shot
 - Perception (or lack thereof) by Public of Risk of Disease
- · Liability Concerns
- Manufacturing Base



Direct Support for Vaccines

- OPHS: National Vaccine Program Office
- NIH: Grants for Vaccine Development, Orphan and Otherwise
- CDC:
 - Vaccines for Children Program
 - Provides state, local and territorial health agencies with money for vaccines for children who are uninsured, Medicaid recipients, American Indians and Alaska Natives and certain others
 - Provides 40% of common childhood vaccines; \$977 million in 2004
 - Working towards 6 month stockpile of all pediatric vaccines
 - National Immunization Program
 - · Assists state and local health departments in implementing immunization programs
 - Supports vaccine supply contracts for vaccine distribution to state and local immunization programs
 - Assess vaccination levels in state and local areas
 - Supports national surveillance of designated diseases for which effective immunizations are available

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Vaccine Injury Compensation Act

- Established by National Childhood Vaccine Injury Act in 1986 in response to virtual disappearance of DTP vaccine in US because of lawsuits
- Establishes no-fault alternative to litigation for common side effects of childhood vaccines
 - Vaccine Injury Compensation Fund, funded by vaccine tax
 - Vaccine Injury Compensation Funds, Consequent
 Table of Injuries developed for each vaccine
 Injuries from common vaccines have declined
 The problem who receive childhouse.
- Covers adults or children who receive childhood vaccines
- Claimants may reject settlement from Vaccine Injury Compensation Fund and pursue litigation



Seasonal Influenza Vaccine

- Seasonal flu vaccine:
 - New vaccine made every year, based on available info on circulating viruses
 - WHO, CDC as collaborator and others work each year to decide elements of seasonal flu vaccine
 - Several months' notice needed to develop vaccine; recommendations for next season released in February
 FDA makes final decision for US on vaccine composition

 - Seasonal flu vaccine in US is trivalent Flu vaccine is egg-based, not cell-based
 - Seasons in Northern and Southern Hemispheres mean manufacturers are not always available to supplement Northern Hemisphere vaccine capacity. Some manufacturers are using off-season capacity for prepandemic flu vaccine

 Only recently approved as childhood vaccine; now subject to VICP and VFC



Illustration of a Problem: Flu Vaccine Shortage 2004-2005

- Two flu vaccine manufacturers supplied US market
- One manufacturer could not deliver due to manufacturing problems
- Remaining manufacturer reallocated supplies
- Lawsuit against remaining manufacturer for reallocation
- "Price gouging"
 - Prices were set at 10x multiples of normal price
 - Prosecutions in Kansas and Florida
 Not an FTC matter
- Mild flu season occurred, overall



Pandemic Flu Vaccine

- Reappearance of H5N1 (first appeared in 1997; re-appeared in 2003)
- NIH develops H5N1 vaccine
- Vaccine requires high dosage, 6x normal amount of antigen (and 2 doses) Liability issues
- New vaccine with pandemic potential; manufacturers' concern over liability
- Health care workers concerned about liability for administration
- Flu budget supplemental and PREP Act
 - Development of Manufacturing Base and Capacity for both Egg-Based and Cell-Based Vaccine Production
 - Development of Antigen Sparing Techniques
 - Accelerate Cell-Based Vaccine
 - Development of Broad-Spectrum Influenza Vaccines
 Expand Clinical Trials Infrastructure

 - PREP Act: Protection from Litigation



PREP Act: What it Provides

- Public Readiness and Emergency Preparedness Act:
 - Covered person immune from suit and liability under federal and state law with respect to all claims for loss from administration of covered countermeasure
 - Loss is broadly defined, includes fear of injury and property loss - Administration includes manufacture, design, development, donation,
 - prescribing, etc.
 - Administration must be under cover of a declaration
 - Declaration to specify disease, period or periods of effect, population of individuals, geographic area covered and possibly, means of distribution

 - Willful misconduct necessary to overcome immunity to suit and liability



Federal Role in Pandemics: More Than Vaccines

- Surveillance
- Communication
- Support for development and production of medical countermeasures
- · Support for planning
- Modes of prophylaxis distribution not focused on vaccines
 - MedKit study underway in St. Louis
 - TopOff 3 and the role of State PODs